

APPENDIX B
VERSION WITH MARKINGS TO SHOW CHANGES MADE
37 C.F.R. § 1.121(b)(iii) AND (c)(ii)

SPECIFICATION

Replacement for the paragraph beginning at page 7, line 5 to page 7, line 17:

the following mechanical properties were achieved after a heat treatment:

Heat treatment	Rp0.2 in MPa	A5 in %
1 st stage 490°C approx 90 min	120-130	12-15
2 nd stage 250°C approx 105 min		
1 st stage 490°C approx 90 min	130-135	11-13
2 nd stage 250°C approx 75 min		
1 st stage 490°C approx 90 min	140-145	8-10
2 nd stage 250°C approx 45 min		
1 st stage 490°C approx 90 min	145-150	8-10
2 nd stage 250°C approx 30 min		
1 st stage 490°C approx 90 min	145-150	8-10
2 nd stage 250°C approx 30 min		

wherein Rp0.2 means yield strength at 0.2% permanent elongation; MPa means 10⁶Pascal and A5% means elongation at break with a sample having a rational length of measurement to diameter of Lo=5do.

CLAIMS:

AMENDED 1. A process for the heat treatment of structure castings made from an aluminum alloy, comprising the steps of:

- placing the structure casting onto a contour-embracing product receiving device,
- heating the casting to 490°C over the course of approximately 30 minutes,
- holding the temperature of 490°C for a time of between 60 and 90 minutes,
- quenching in air from 490°C to approximately 100°C over the course of approximately 4 minutes[, if appropriate followed by quenching in water],

- heating to 250°C over the course of approximately 15 minutes,
- holding the temperature of 250°C for a time of between 30 and 105 minutes,
- quenching in air to 40°C[, if appropriate followed by quenching in water]:

AMENDED 3. The process as claimed in claim 1, in which the temperature of 490°C is held for approximately 90 minutes, and the temperature of 250°C is held for approximately 30 minutes[or approximately 45 minutes or approximately 60 minutes or approximately 105 minutes].

AMENDED 4. An aluminum alloy for use [with the] in a process of heat treatment[as claimed in claim 1, 2 or 3], having the following composition:

Si: 2-11.5%

Fe: 0.15–0.4%

Mg: 0.3–1.0%

Cu: <0.02%

Mn: 0.4-0.8%

Ti: 0.1-0.2%

remainder aluminum and trace elements.

AMENDED 5. An aluminum alloy for use [with the] in a process [as claimed in claim 1, 2 or 3] of heat treatment, having the following composition:

Si: 1-3%

Fe: 0.15-0.4%

Mg: 3-5.5%

Cu: <0.02%

Mn: 0.4-0.8%

Ti: 0.1-0.2%

Zn: <0.08%

remainder aluminum and trace elements.

AMENDED 6. An aluminum alloy for use [with the] in a process [as claimed in claim 1, 2 or 3] of heat treatment, having the following composition:

Si: 7-11.5%

Fe: 0.15-0.4%

Mg: 0.3-0.4%

Cu: <0.02%

Mn: 0.4-0.6%

Ti: 0.15-0.2%

Sr: up to 300 ppm

remainder aluminum and trace elements.

AMENDED 7. The [aluminum alloy] process as claimed in claim 1, further comprising [4, 5 or 6, which], before [being introduced] introducing the structure casting into the casting process, [has been subjected] subjecting the aluminum alloy to a melt treatment[, such as degassing and/or filtration].